Allow room for 3.5cm X 4.5cm breadboard
module to be attached in center of PCB.

Port 0
P1
P0[0] P0[1] P0[2] P0[3] P0[4] P0[5] P0[6] P0[7]
RECP 8X1

Port 1
P3
P1[0] P1[1] P1[2] P1[3] P1[4] P1[5] P1[6] P1[7]
RECP 8X1

Port 2
P2
P2[0] P2[1] P2[2] P2[3] P2[4] P2[5] P2[6] P2[7]
RECP 8X1

Port 3 / I2C
P4
P3[0] P3[1] P3[2] P3[3]
VCC
RECP 8X1

Power / GND
P5
Vin 5V 3.3V Vadj
RECP 8X1

Vin TP1 VIN
TP2 GND
5V TP3 5V
TP4 GND
VCC TP5 VCC
Vadj TP6 VADJ
Place test points near edge of board.

J1
22x2_RA_Header
P0[6] P0[2] P2[6] P2[2] P3[2] P1[6] P1[2] NC P1[5] P3[1] P2[1] P2[5] P0[1] P0[5] P1[0] SDA
P0[4] P0[0] P2[4] P2[0] P3[0] P1[4] NC P1[3] P1[7] P3[3] P2[3] P2[7] P0[3] P0[7] SCL P1[1]
Vin VCC 5V Vadj

Place on opposite
ends of the PCB

Do Not Populate

J2
22x2_RA_Header
P0[6] R7 zero P0[6]b P0[4]b R8 zero P0[4]
P0[2] R9 zero P0[2]b P0[0]b R10 zero P0[0]
P2[6] R11 zero P2[6]b P2[4]b R12 zero P2[4]
P2[2] R13 zero P2[2]b P2[0]b R14 zero P2[0]
P3[2] R15 zero P3[2]b P3[0]b R16 zero P3[0]
P1[6] R17 zero P1[6]b P1[4]b R18 zero P1[4]
P1[2] R19 zero P1[2]b NC
NC
P1[5] R21 zero P1[5]b P1[3]b R20 zero P1[3]
P3[1] R23 zero P3[1]b P1[7]b R22 zero P1[7]
P2[1] R25 zero P2[1]b P3[3]b R24 zero P3[3]
P2[5] R27 zero P2[5]b P2[3]b R26 zero P2[3]
P0[1] R29 zero P0[1]b P2[7]b R28 zero P2[7]
P0[5] R31 zero P0[5]b P0[3]b R30 zero P0[3]
P1[0] R33 zero P1[0]b SDA P0[7]b R32 zero P0[7]
SCL P1[1]b R34 zero P1[1]
Vin VCC 5V Vadj

Do Not Populate

5V U1 LM1117MPX-3.3 3.3V
VIN VOUT GND TAB
+ C1 10 uFd 16v
+ C2 10 uFd 16v

Vadj
R1 10k
R2 10k
R3 10k
R4 10k
R5 10k
R6 10k
U2
24LC02B
A0 A1 A2 GND VCC WP SCL SDA
Vadj P1[1] P1[0]

PCB: PDCR-9415
PCA:121R-41500

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